

Data Path : Z:\HPCHEM1\BNA F\DATA\BF020918\
 Data File : BF102882.D
 Acq On : 9 Feb 2018 12:17
 Operator : SJ/JU
 Sample : J1404-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TR-05-020718

Manual Integrations
 APPROVED

Sohil
 2/13/2018 4:35:20 AM

Quant Time: Feb 09 14:55:59 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 05 12:44:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	166563	20.00	ng	0.00
21) Naphthalene-d8	8.17	136	622674	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	223779	20.00	ng	0.00
63) Phenanthrene-d10	11.42	188	327560	20.00	ng	0.00
75) Chrysene-d12	14.06	240	303087	20.00	ng	0.01
86) Perylene-d12	15.55	264	295957	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	1102927	100.56	ng	0.01
7) Phenol-d6	6.52	99	1230477	93.18	ng	0.01
23) Nitrobenzene-d5	7.45	82	791588	88.19	ng	0.00
41) 2,4,6-Tribromophenol	10.72	330	154744	85.91	ng	0.00
44) 2-Fluorobiphenyl	9.24	172	949412	70.40	ng	0.00
78) Terphenyl-d14	13.00	244	677324	52.91	ng	0.00
Target Compounds						
10) Phenol	6.52	94	45166	3.191	ng	88
49) Dimethylphthalate	9.63	163	66620	3.818	ng	# 98
51) Acenaphthene	9.96	154	57115	4.144	ng	99
57) Fluorene	10.47	166	58395	4.132	ng	99
70) Phenanthrene	11.44	178	847567	46.460	ng	99
71) Anthracene	11.49	178	323078	17.412	ng	99
72) Carbazole	11.64	167	38755	2.132	ng	95
74) Fluoranthene	12.63	202	1127253	61.415	ng	99
77) Pyrene	12.86	202	1025209	43.136	ng	100
80) Benzo(a)anthracene	14.05	228	552883	29.005	ng	98
82) Chrysene	14.09	228	491605	25.585	ng	97
85) Indeno(1,2,3-cd)pyrene	17.06	276	149660	9.391	ng	98
87) Benzo(b)fluoranthene	15.11	252	509636m	26.560	ng	
88) Benzo(k)fluoranthene	15.13	252	182544m	9.957	ng	
89) Benzo(a)pyrene	15.49	252	354813	20.543	ng	# 94
90) Dibenzo(a,h)anthracene	17.06	278	40870	2.915	ng	# 79
91) Benzo(a,h,i)perylene	17.51	276	131345	9.572	ng	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

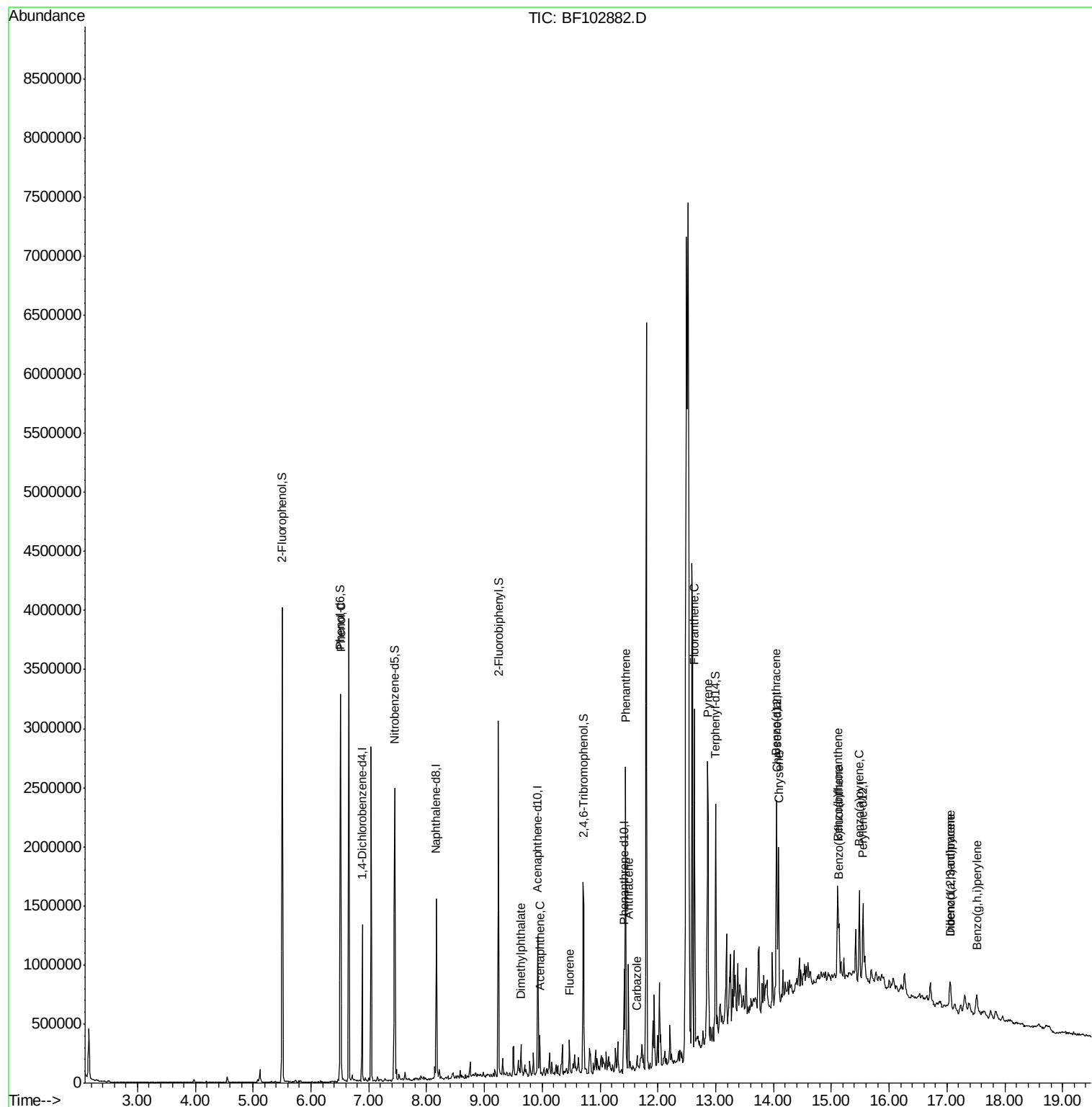
Data Path : Z:\HPCHEM1\BNA F\DATA\BF020918\
Data File : BF102882.D
Acq On : 9 Feb 2018 12:17
Operator : SJ/JU
Sample : J1404-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

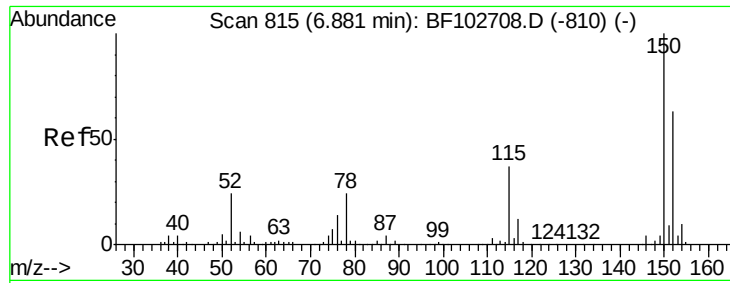
Instrument :
BNA_F
ClientSampleId :
TR-05-020718

Manual Integrations
APPROVED

Sohil
2/13/2018 4:35:20 AM

Quant Time: Feb 09 14:55:59 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Feb 05 12:44:16 2018
Response via : Initial Calibration





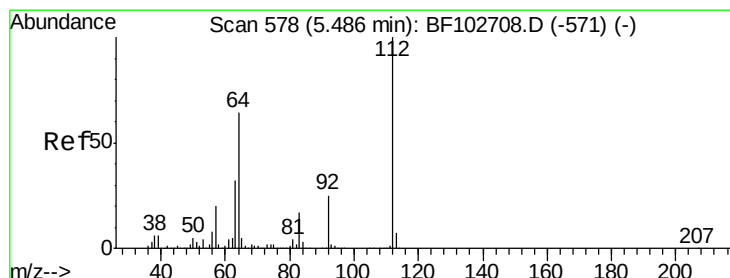
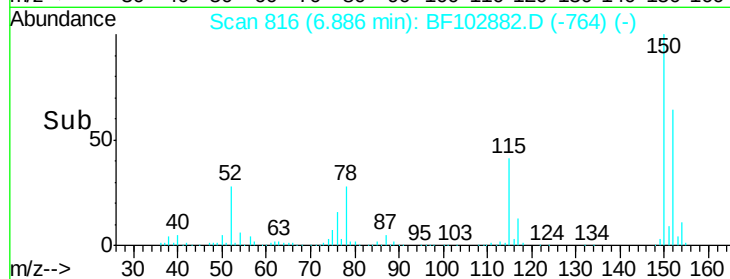
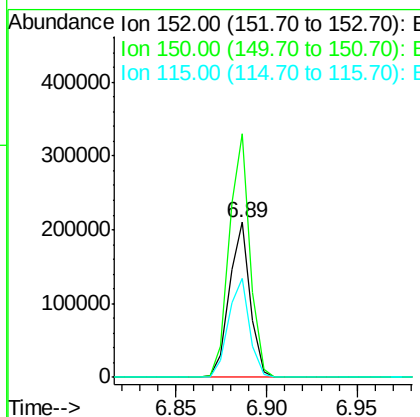
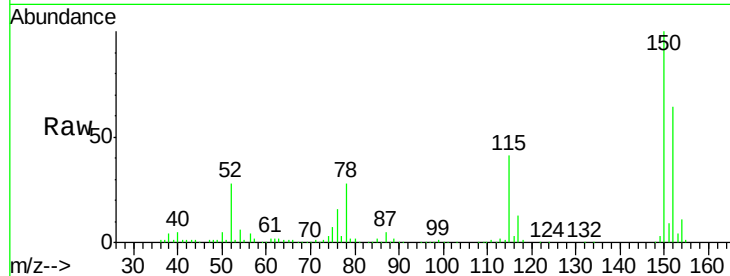
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.89 min Scan# 816
 Delta R.T. 0.01 min
 Lab File: BF102882.D
 Acq: 9 Feb 2018 12:17

Instrument :
 BNA_F
 ClientSampleId :
 TR-05-020718

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.3	124.6	186.8
115	63.8	50.1	75.1

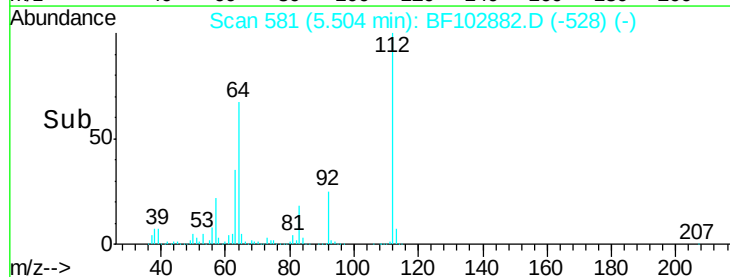
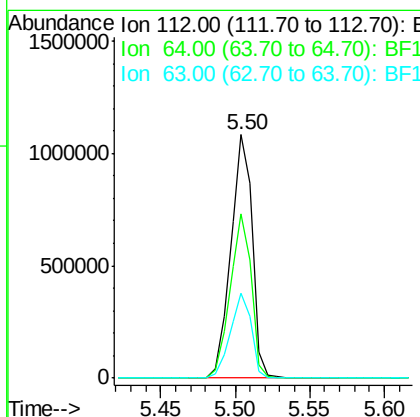
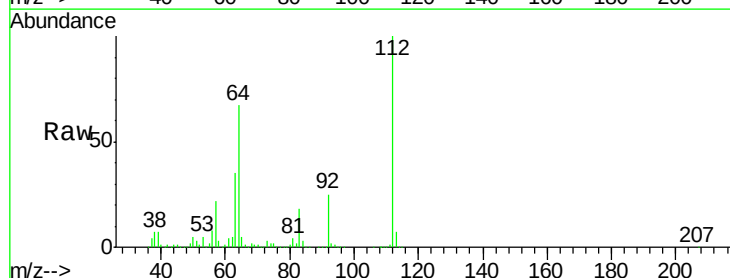
Manual Integrations
 APPROVED

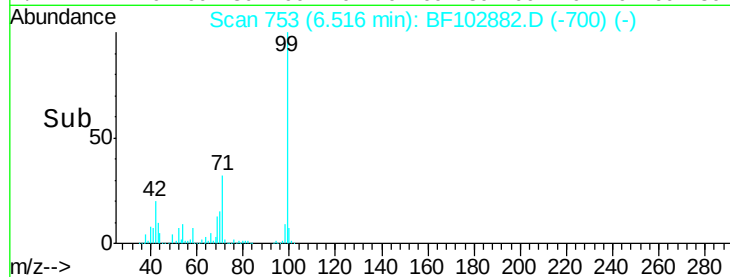
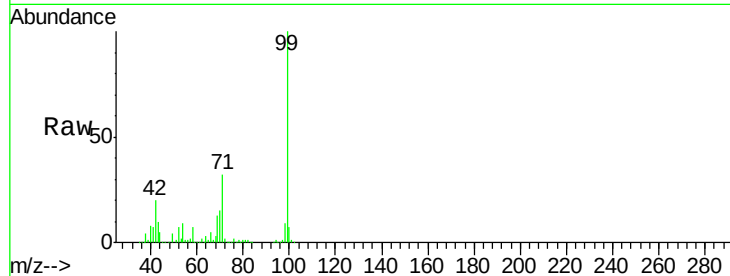
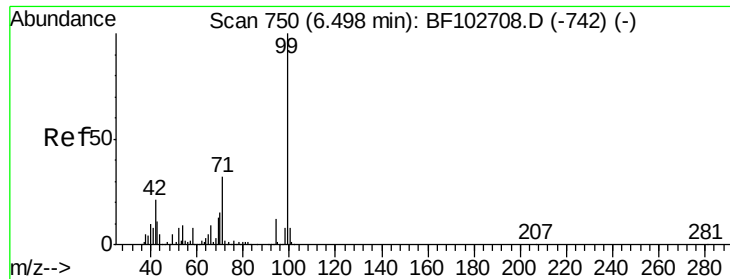
Sohil
 2/13/2018 4:35:20 AM



#5
 2-Fluorophenol
 Concen: 100.561 ng
 RT: 5.50 min Scan# 581
 Delta R.T. 0.01 min
 Lab File: BF102882.D
 Acq: 9 Feb 2018 12:17

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.4	47.9	71.9
63	34.7	23.7	35.5





#7

Phenol-d6

Concen: 93.177 ng

RT: 6.52 min Scan# 753

Delta R.T. 0.01 min

Lab File: BF102882.D

Acq: 9 Feb 2018 12:17

Tot Ion:	99	Resp:	1230477
Ion	Ratio	Lower	Upper
99	100		
42	20.5	14.5	21.7
71	31.8	25.4	38.0

Instrument :

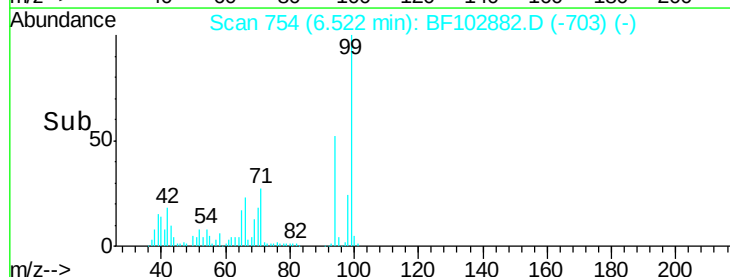
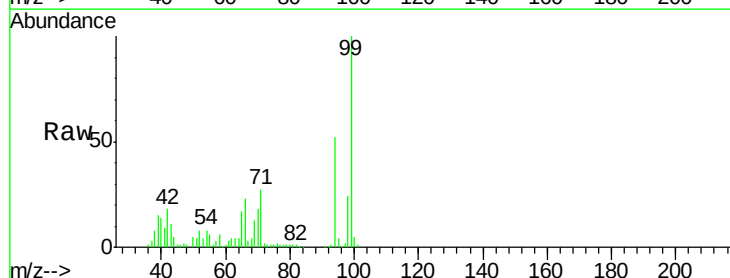
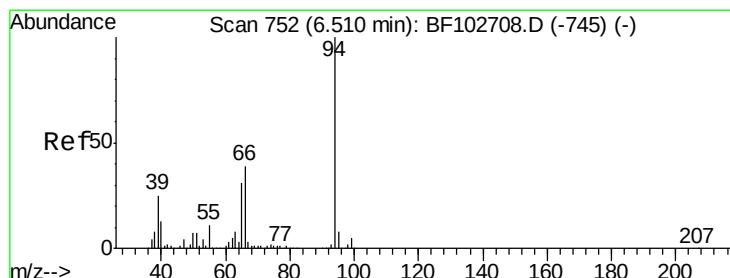
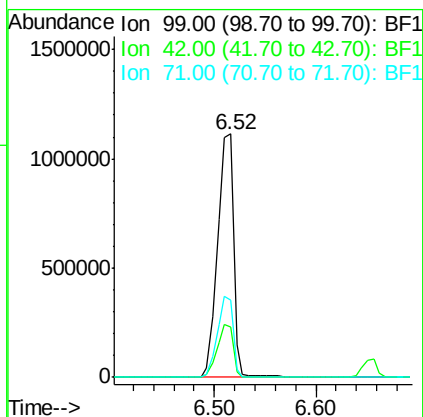
BNA_F

ClientSampleId :

TR-05-020718

Manual Integrations
APPROVED

Sohil
2/13/2018 4:35:20 AM



#10

Phenol

Concen: 3.191 ng

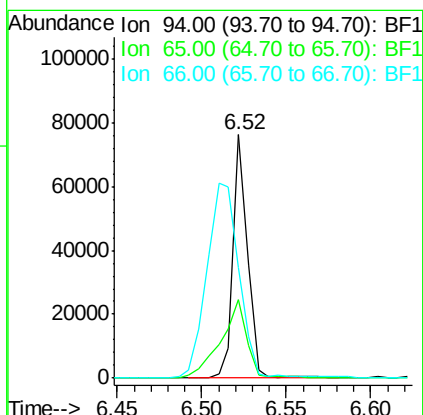
RT: 6.52 min Scan# 754

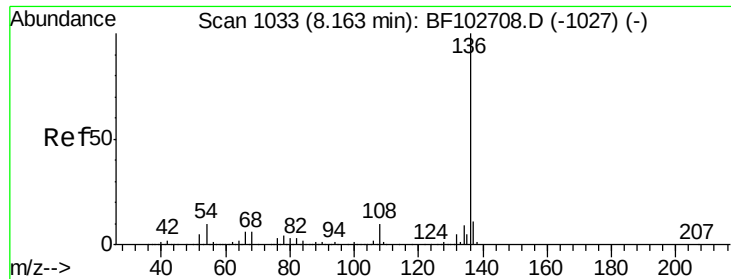
Delta R.T. -0.00 min

Lab File: BF102882.D

Acq: 9 Feb 2018 12:17

Tgt Ion:	94	Resp:	45166
Ion	Ratio	Lower	Upper
94	100		
65	32.4	7.9	47.9
66	45.2	16.2	56.2





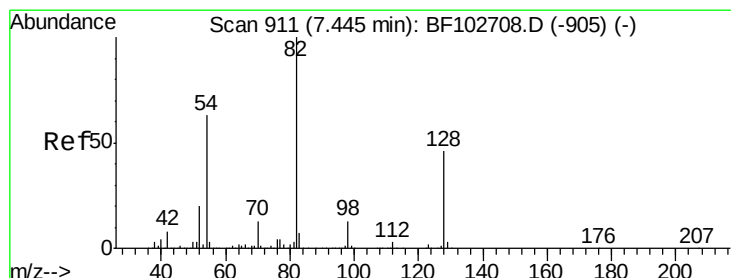
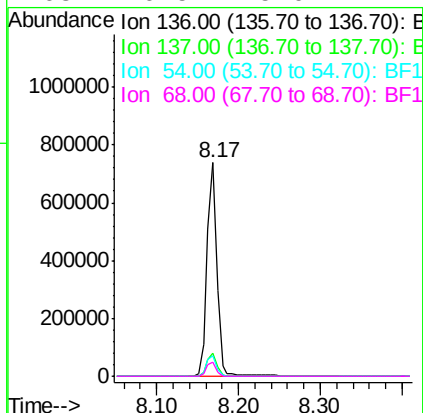
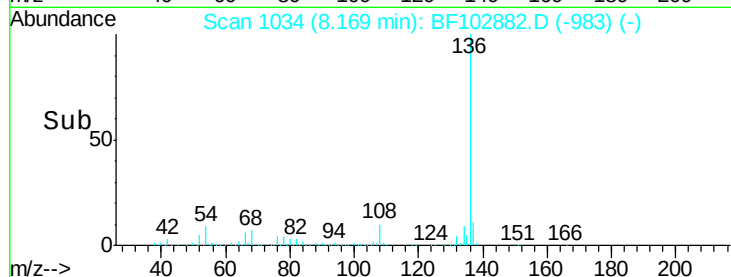
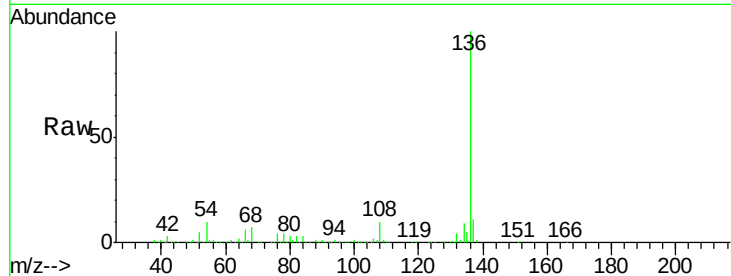
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.17 min Scan# 1034
Delta R.T. -0.00 min
Lab File: BF102882.D
Acq: 9 Feb 2018 12:17

Instrument :
BNA_F
ClientSampleId :
TR-05-020718

Tot Ion	Ratio	Resp	Lower	Upper
136	100	622674		
137	10.6		8.9	13.3
54	9.6		6.6	9.8
68	6.5		5.0	7.4

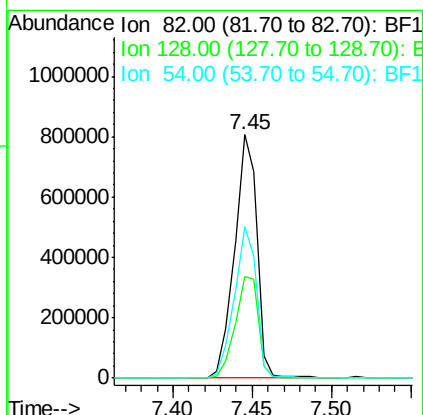
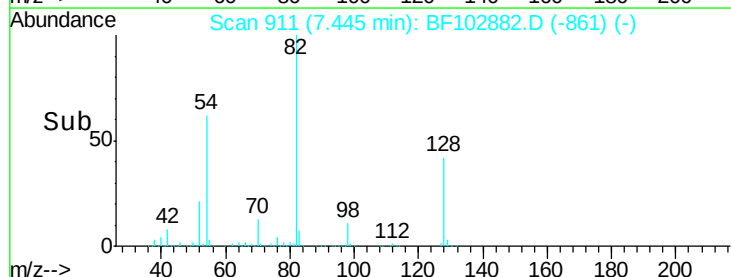
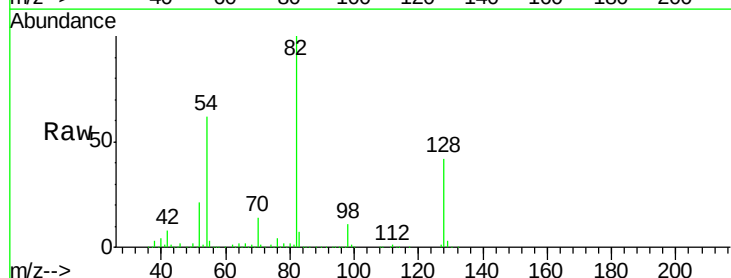
Manual Integrations
APPROVED

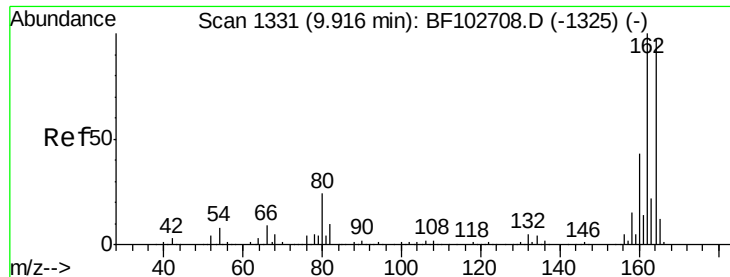
Sohil
2/13/2018 4:35:20 AM



#23
Nitrobenzene-d5
Concen: 88.189 ng
RT: 7.45 min Scan# 911
Delta R.T. -0.01 min
Lab File: BF102882.D
Acq: 9 Feb 2018 12:17

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	791588		
128	41.8		36.1	54.1
54	62.1		41.4	62.2





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.92 min Scan# 1332

Delta R.T. -0.00 min

Lab File: BF102882.D

Acq: 9 Feb 2018 12:17

Instrument :

BNA_F

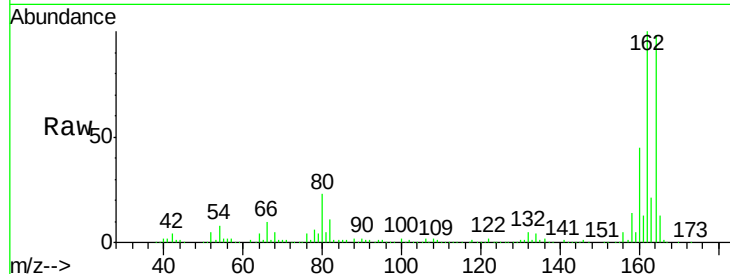
ClientSampleId :

TR-05-020718

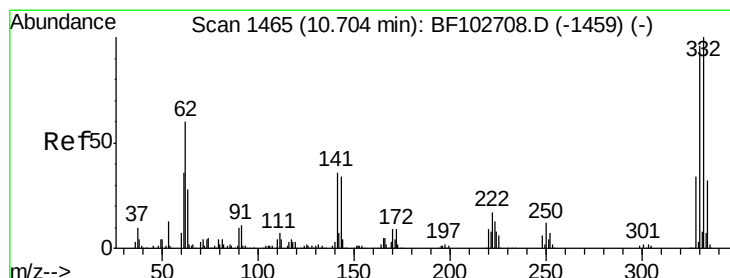
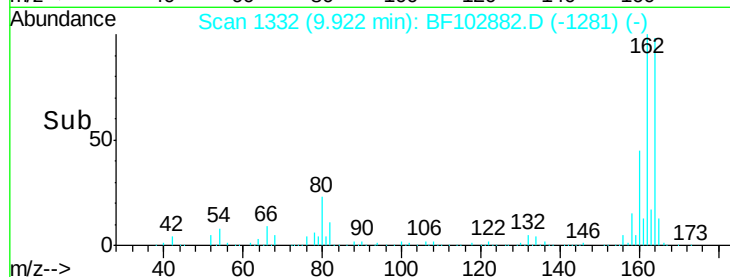
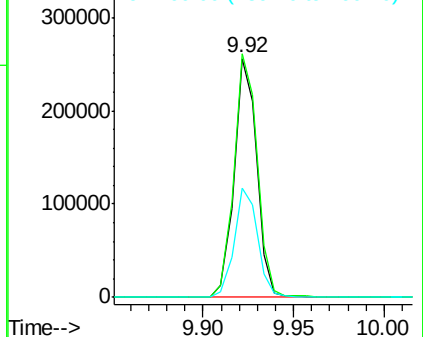
Tot Ion:	164	Resp:	223779
Ion Ratio	Lower	Upper	
164	100		
162	101.9	86.1	129.1
160	45.8	38.3	57.5

Manual Integrations
APPROVED

Sohil
2/13/2018 4:35:20 AM



Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 85.914 ng

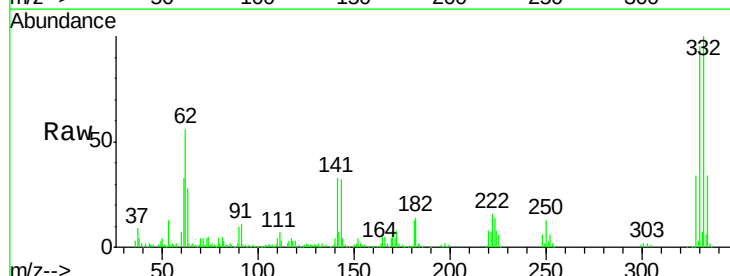
RT: 10.72 min Scan# 1467

Delta R.T. 0.01 min

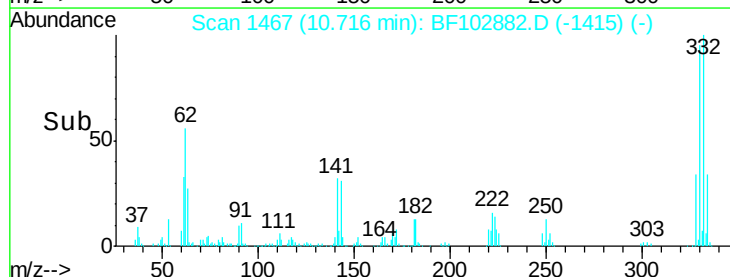
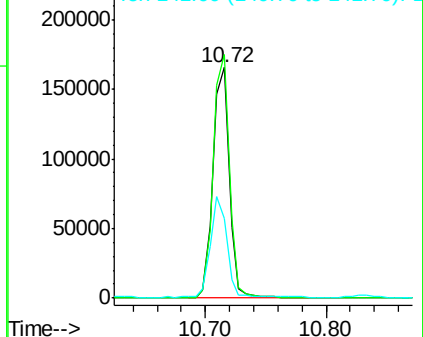
Lab File: BF102882.D

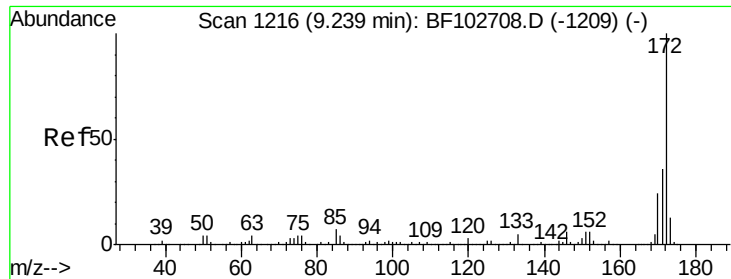
Acq: 9 Feb 2018 12:17

Tgt Ion:	330	Resp:	154744
Ion Ratio	Lower	Upper	
330	100		
332	104.6	77.0	115.6
141	44.5	29.9	44.9



Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E





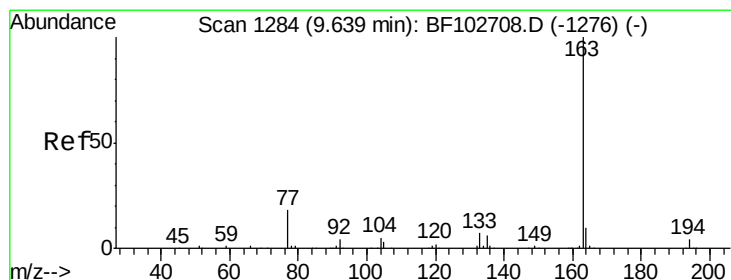
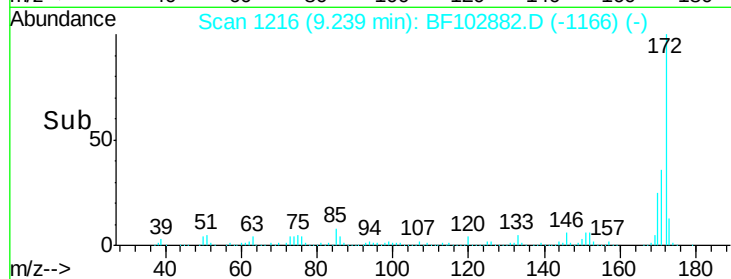
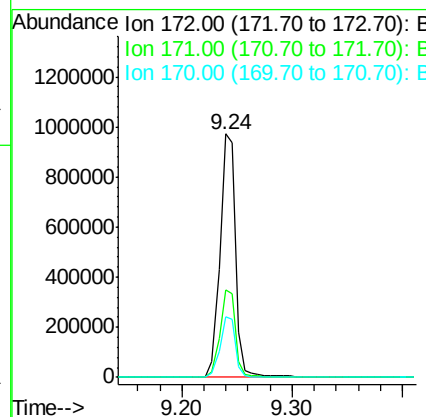
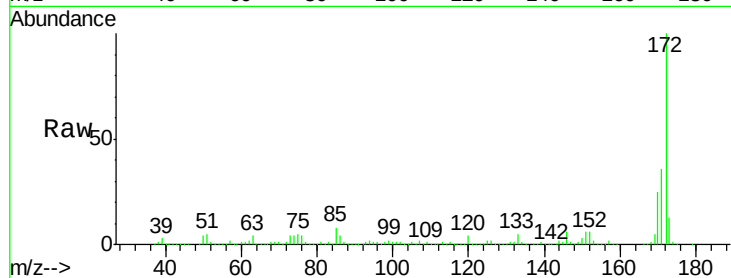
#44
2-Fluorobiphenyl
Concen: 70.400 ng
RT: 9.24 min Scan# 1216
Delta R.T. -0.01 min
Lab File: BF102882.D
Acq: 9 Feb 2018 12:17

Instrument :
BNA_F
ClientSampleId :
TR-05-020718

Tot Ion	Ratio	Resp	Lower	Upper
172	100	949412		
171	35.8		29.7	44.5
170	24.9		19.6	29.4

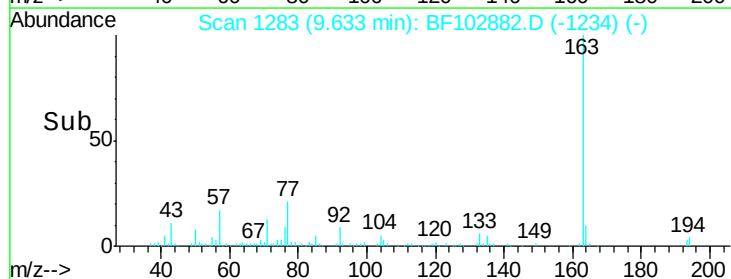
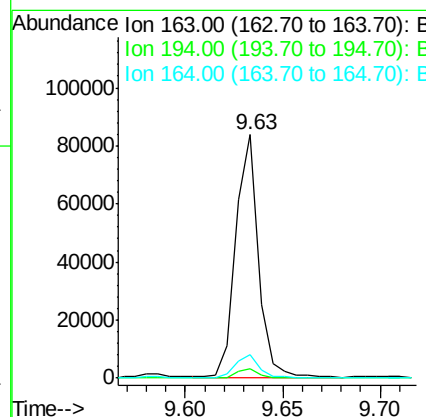
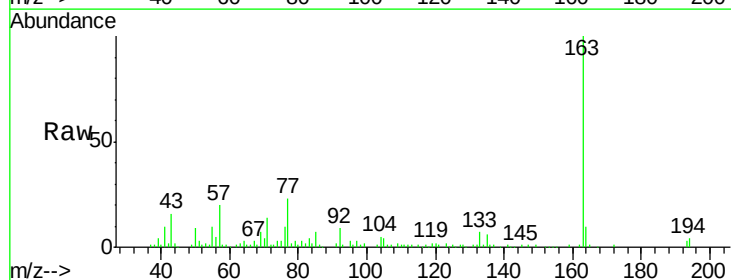
Manual Integrations
APPROVED

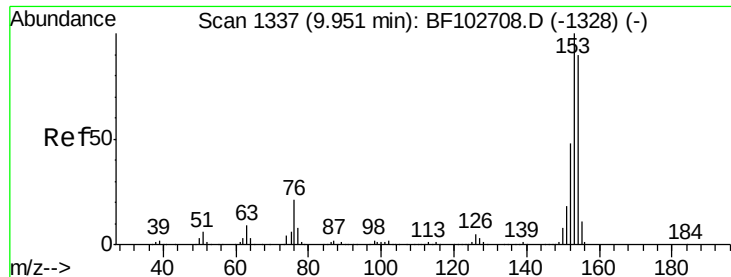
Sohil
2/13/2018 4:35:20 AM



#49
Dimethylphthalate
Concen: 3.818 ng
RT: 9.63 min Scan# 1283
Delta R.T. -0.01 min
Lab File: BF102882.D
Acq: 9 Feb 2018 12:17

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	66620		
194	4.1		2.7	4.1#
164	9.6		8.2	12.2





#51

Acenaphthene

Concen: 4.144 ng

RT: 9.96 min Scan# 1338

Delta R.T. -0.00 min

Lab File: BF102882.D

Acq: 9 Feb 2018 12:17

Instrument :

BNA_F

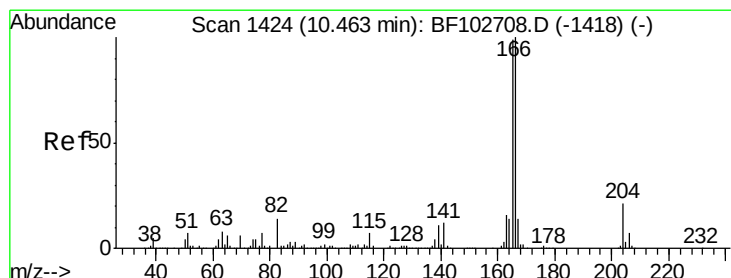
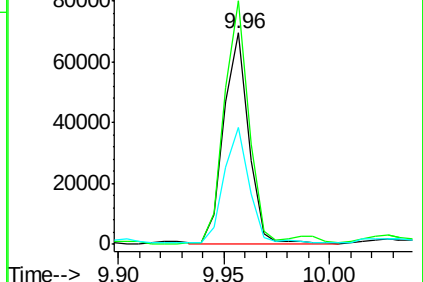
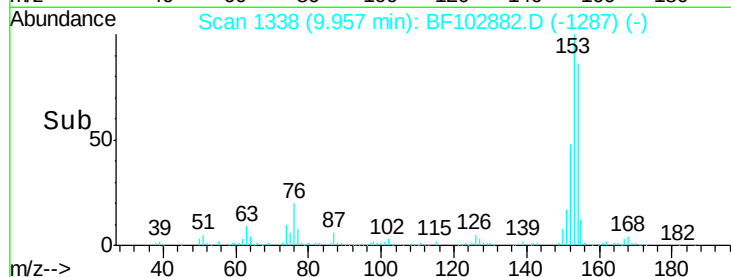
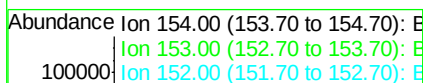
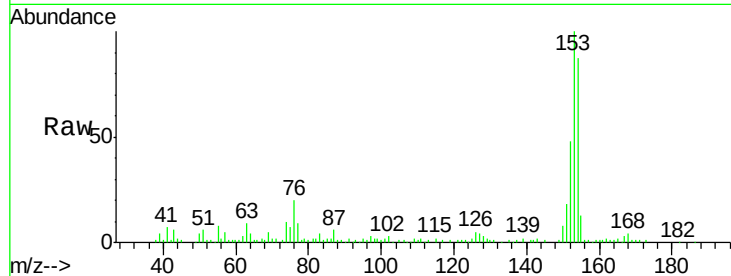
ClientSampleId :

TR-05-020718

Tot Ion:	154	Resp:	57115
Ion Ratio	Lower	Upper	
154	100		
153	115.3	91.2	136.8
152	55.6	43.8	65.8

Manual Integrations
APPROVED

Sohil
2/13/2018 4:35:20 AM



#57

Fluorene

Concen: 4.132 ng

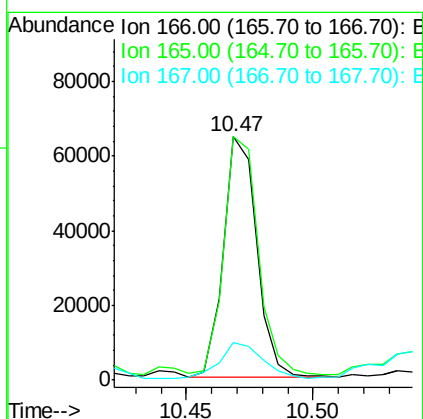
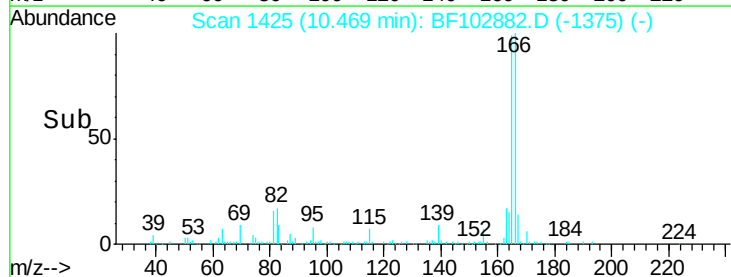
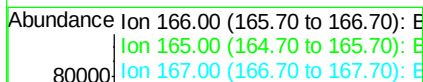
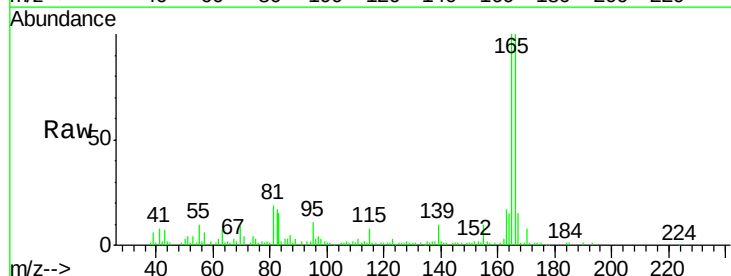
RT: 10.47 min Scan# 1425

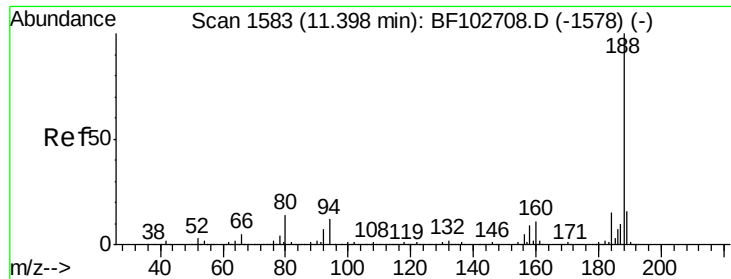
Delta R.T. -0.01 min

Lab File: BF102882.D

Acq: 9 Feb 2018 12:17

Tgt Ion:	166	Resp:	58395
Ion Ratio	Lower	Upper	
166	100		
165	99.9	79.8	119.8
167	15.2	10.6	16.0





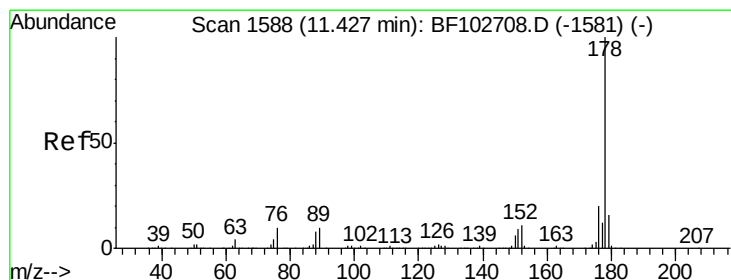
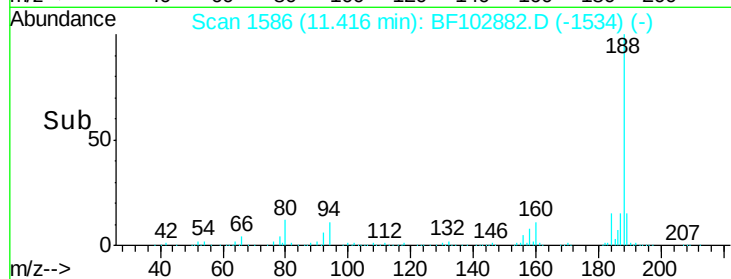
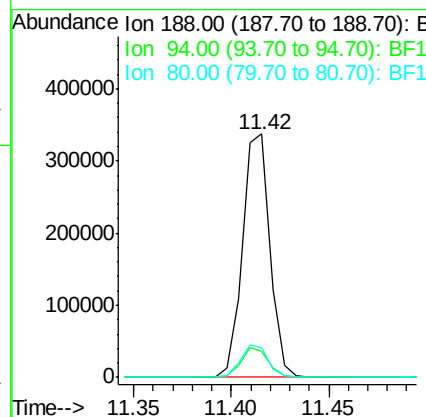
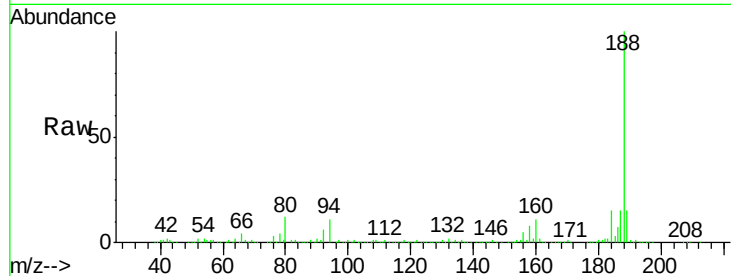
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.42 min Scan# 1586
Delta R.T. 0.01 min
Lab File: BF102882.D
Acq: 9 Feb 2018 12:17

Instrument :
BNA_F
ClientSampleId :
TR-05-020718

Tot Ion	Ratio	Resp	Lower	Upper
188	100	327560		
94	10.7		8.5	12.7
80	12.1		9.2	13.8

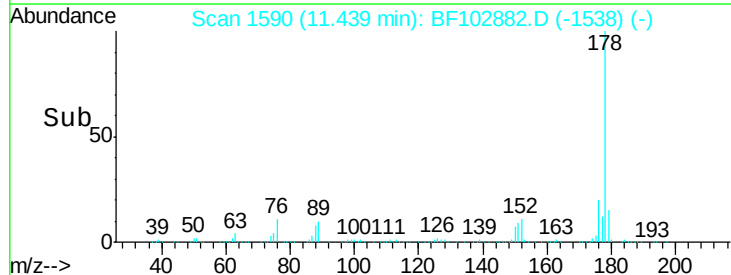
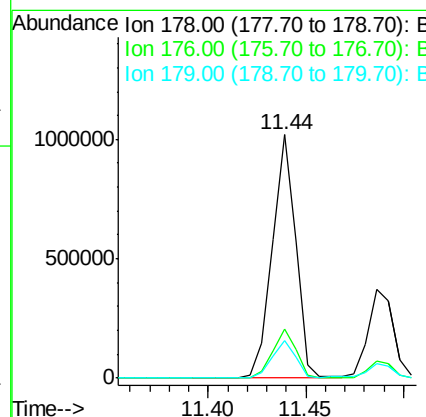
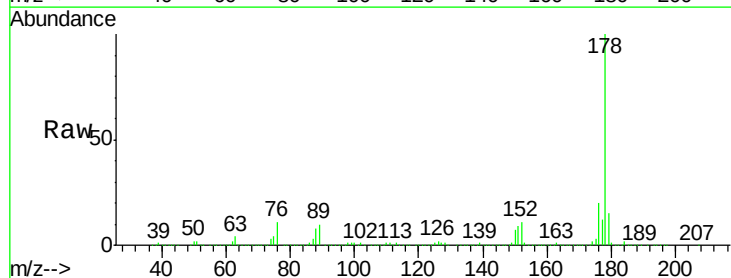
Manual Integrations
APPROVED

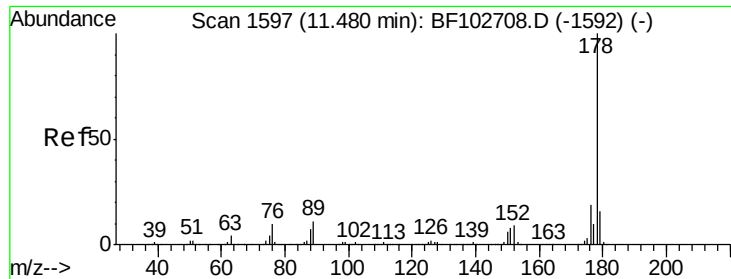
Sohil
2/13/2018 4:35:20 AM



#70
Phenanthrene
Concen: 46.460 ng
RT: 11.44 min Scan# 1590
Delta R.T. 0.01 min
Lab File: BF102882.D
Acq: 9 Feb 2018 12:17

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	847567		
176	20.3		15.8	23.8
179	15.5		13.0	19.6





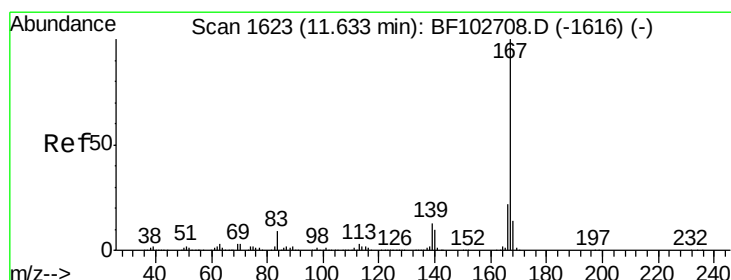
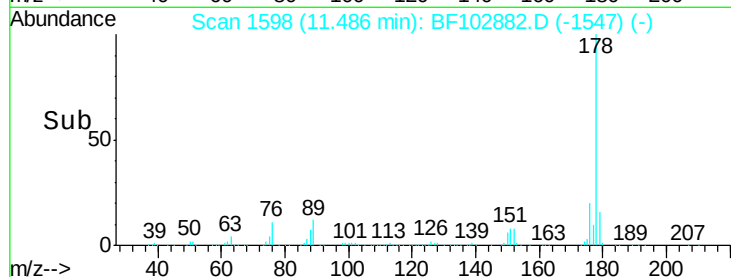
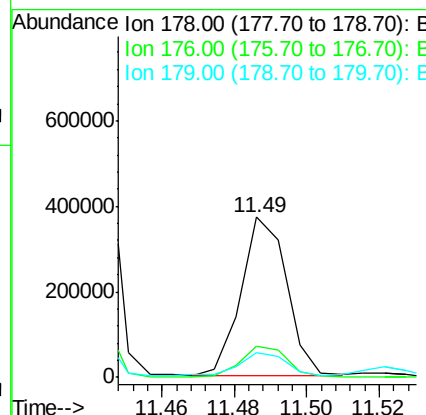
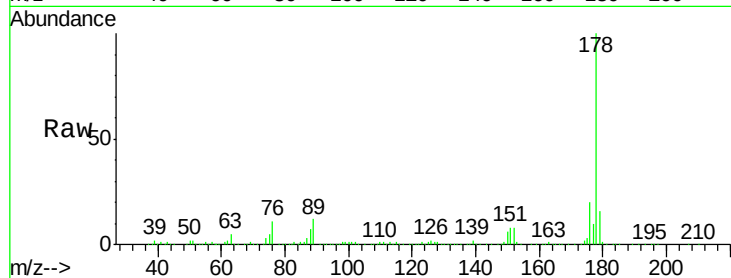
#71
 Anthracene
 Concen: 17.412 ng
 RT: 11.49 min Scan# 1598
 Delta R.T. -0.00 min
 Lab File: BF102882.D
 Acq: 9 Feb 2018 12:17

Instrument :
 BNA_F
 ClientSampleId :
 TR-05-020718

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.4	23.2
179	15.7	12.6	19.0

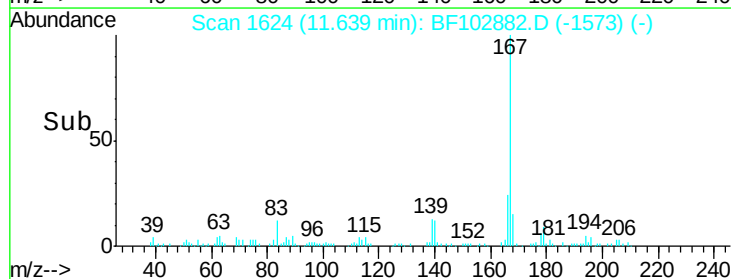
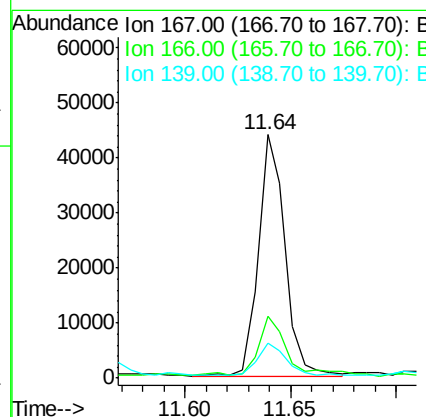
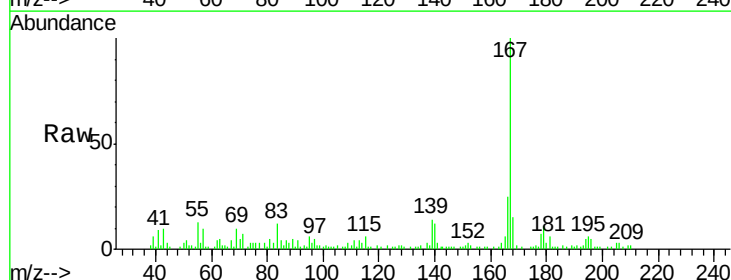
Manual Integrations
 APPROVED

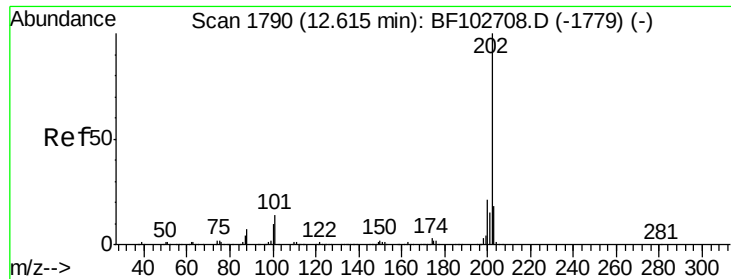
Sohil
 2/13/2018 4:35:20 AM



#72
 Carbazole
 Concen: 2.132 ng
 RT: 11.64 min Scan# 1624
 Delta R.T. -0.00 min
 Lab File: BF102882.D
 Acq: 9 Feb 2018 12:17

Tgt Ion	Ratio	Lower	Upper
167	100		
166	25.4	17.6	26.4
139	14.2	10.9	16.3





#74

Fluoranthene

Concen: 61.415 ng

RT: 12.63 min Scan# 1793

Delta R.T. 0.01 min

Lab File: BF102882.D

Acq: 9 Feb 2018 12:17

Instrument :

BNA_F

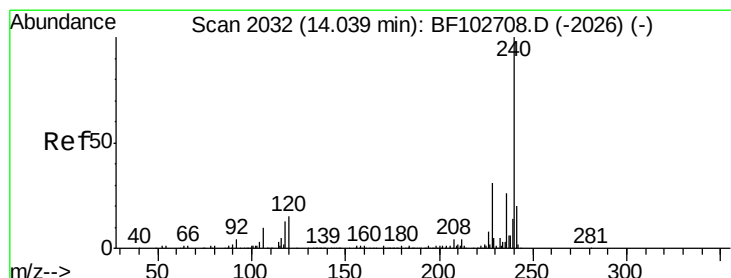
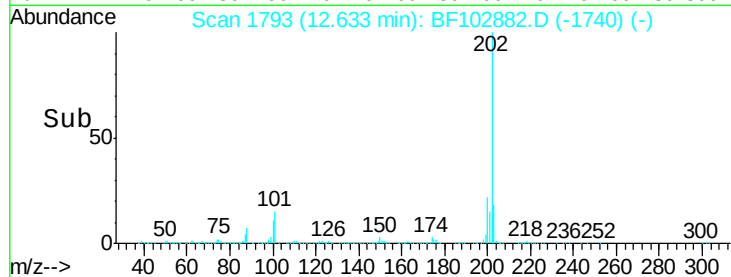
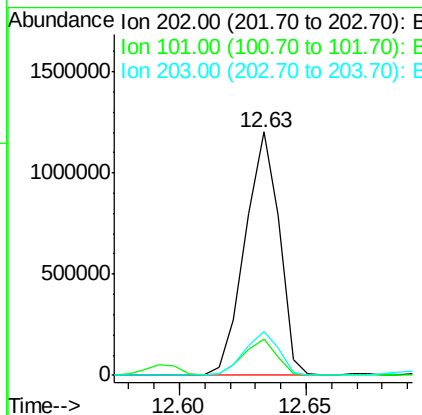
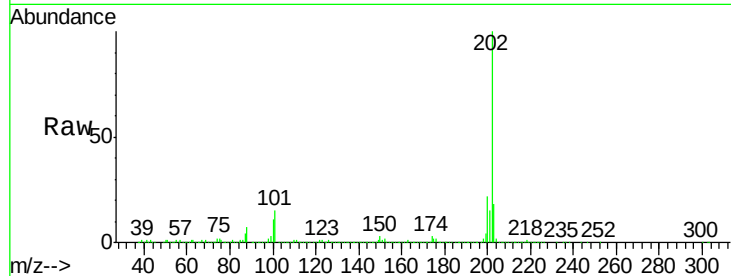
ClientSampleId :

TR-05-020718

Tot Ion:	202	Resp:	1127253
Ion Ratio	Lower	Upper	
202	100		
101	15.1	0.0	34.1
203	18.1	0.0	38.1

Manual Integrations
APPROVED

Sohil
2/13/2018 4:35:20 AM



#75

Chrysene-d12

Concen: 20.000 ng

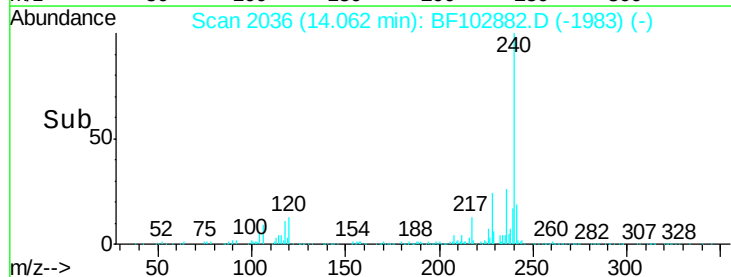
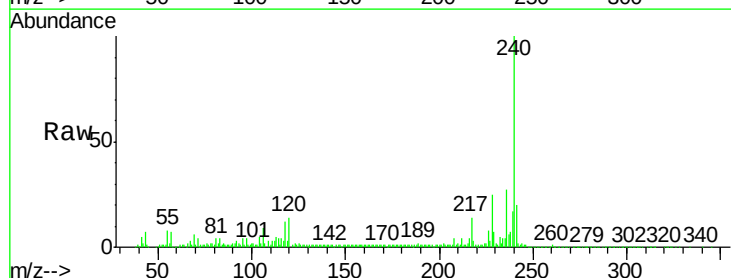
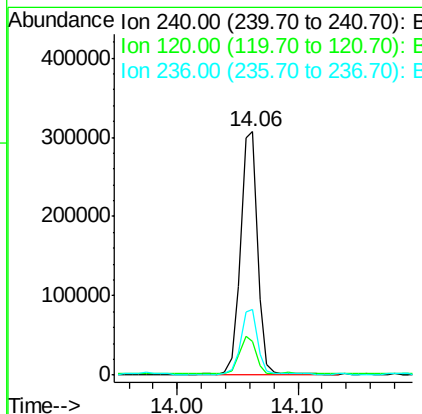
RT: 14.06 min Scan# 2036

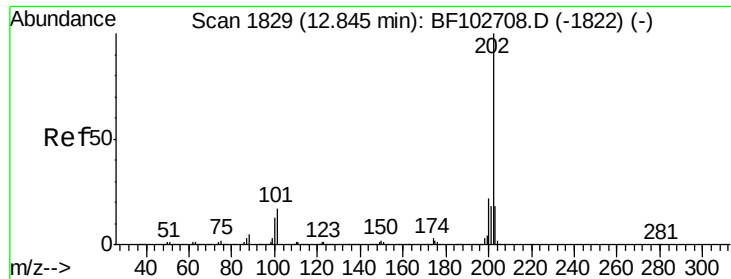
Delta R.T. 0.01 min

Lab File: BF102882.D

Acq: 9 Feb 2018 12:17

Tgt Ion:	240	Resp:	303087
Ion Ratio	Lower	Upper	
240	100		
120	13.6	9.5	14.3
236	27.0	20.7	31.1





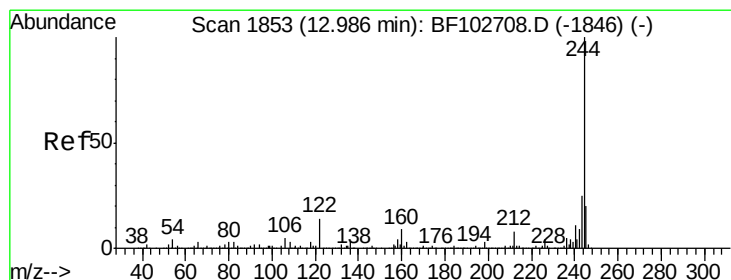
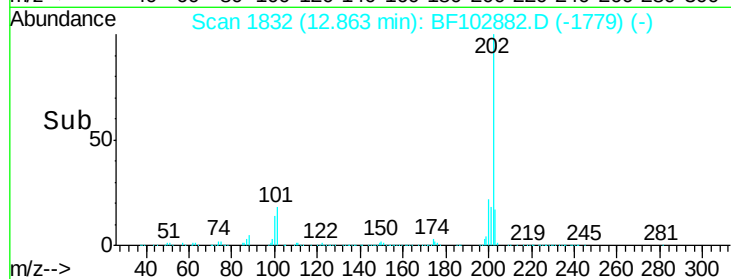
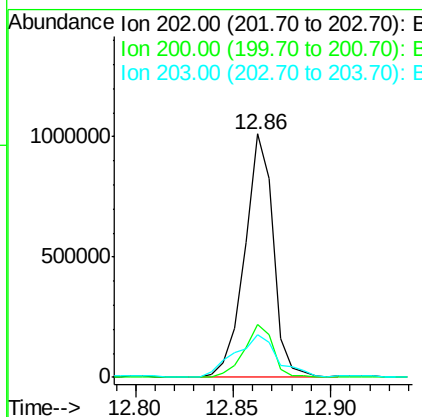
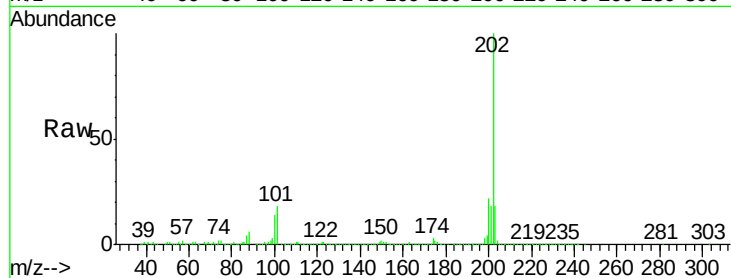
#77
Pvrene
Concen: 43.136 ng
RT: 12.86 min Scan# 1832
Delta R.T. 0.01 min
Lab File: BF102882.D
Acq: 9 Feb 2018 12:17

Instrument :
BNA_F
ClientSampled :
TR-05-020718

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.4	26.2
203	17.7	14.3	21.5

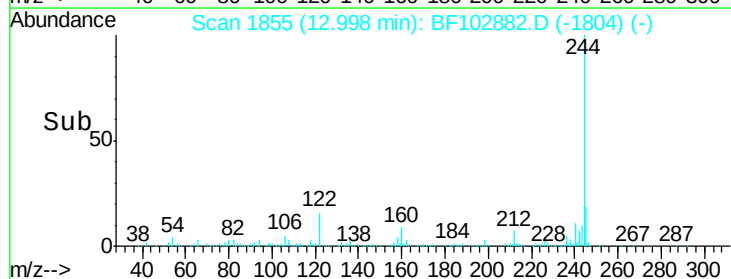
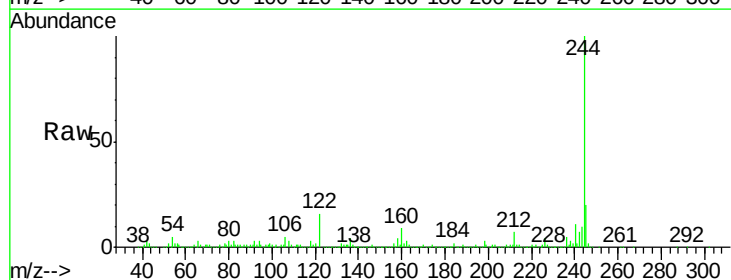
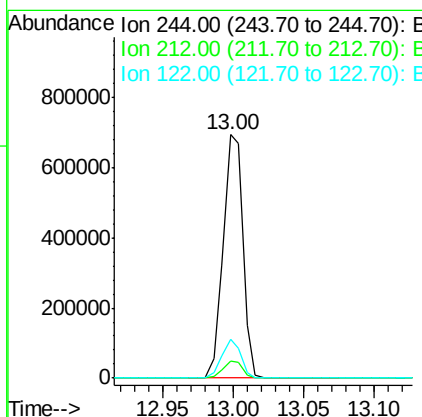
Manual Integrations
APPROVED

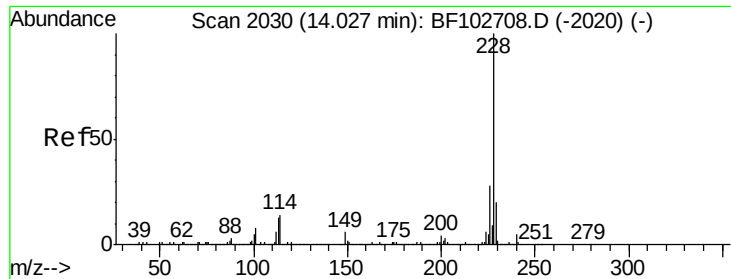
Sohil
2/13/2018 4:35:20 AM



#78
Terphenyl-d14
Concen: 52.914 ng
RT: 13.00 min Scan# 1855
Delta R.T. -0.00 min
Lab File: BF102882.D
Acq: 9 Feb 2018 12:17

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.4	8.0
122	15.7	11.0	16.4





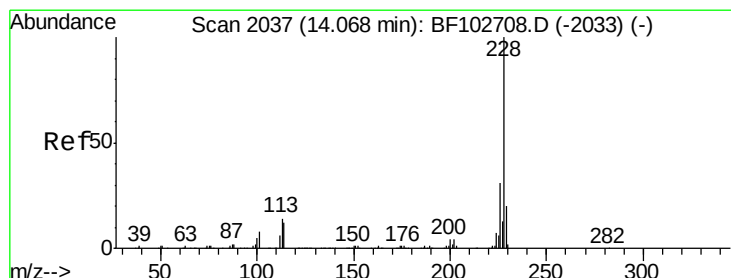
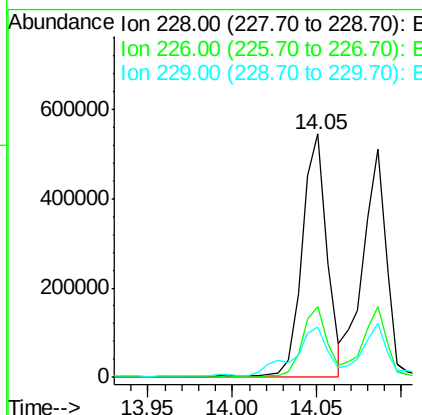
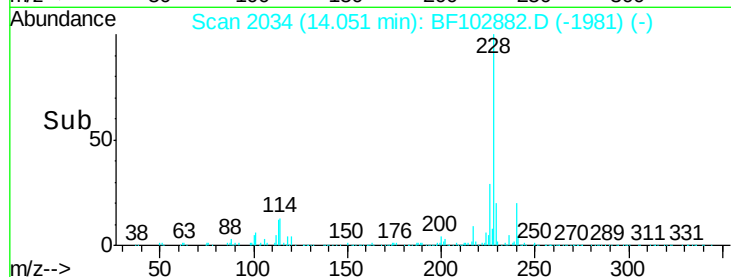
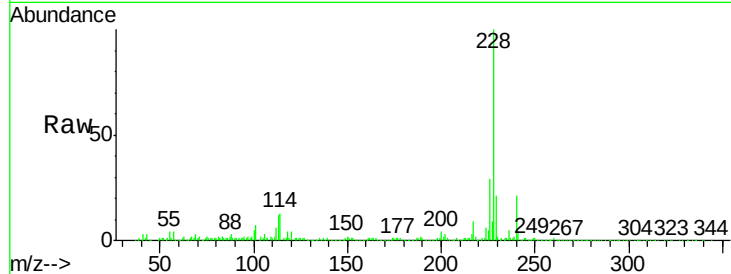
#80
Benzo(a)anthracene
Concen: 29.005 ng
RT: 14.05 min Scan# 2034
Delta R.T. 0.01 min
Lab File: BF102882.D
Acq: 9 Feb 2018 12:17

Instrument :
BNA_F
ClientSampleId :
TR-05-020718

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.6	33.8
229	20.9	15.8	23.6

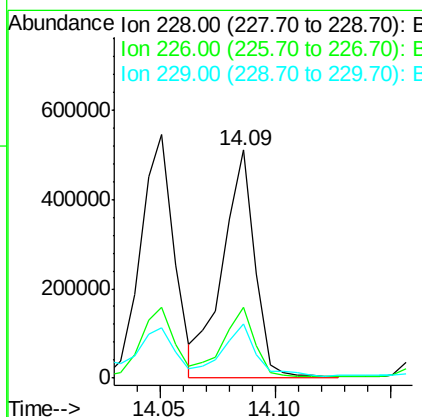
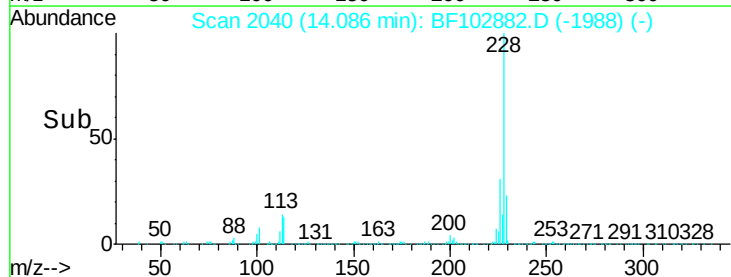
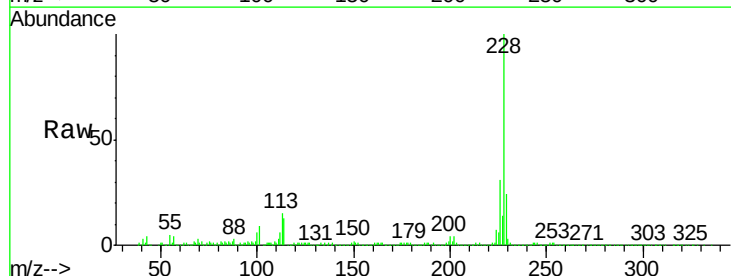
Manual Integrations
APPROVED

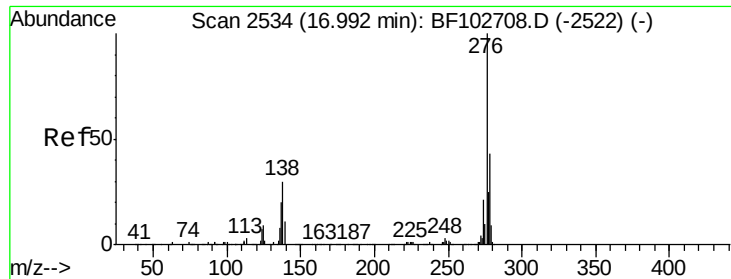
Sohil
2/13/2018 4:35:20 AM



#82
Chrysene
Concen: 25.585 ng
RT: 14.09 min Scan# 2040
Delta R.T. 0.01 min
Lab File: BF102882.D
Acq: 9 Feb 2018 12:17

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.3	25.0	37.6
229	23.6	16.2	24.4





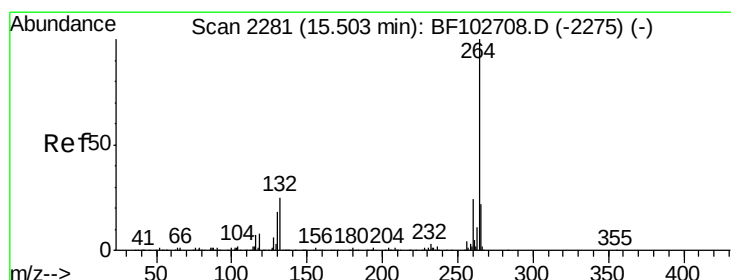
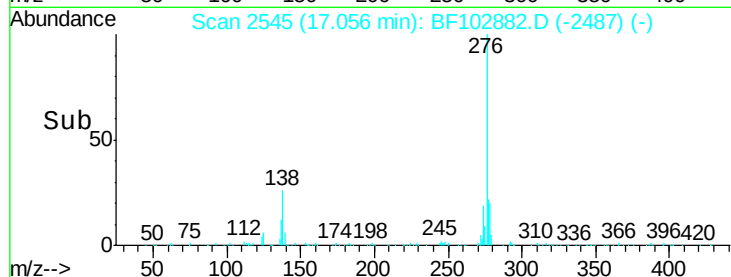
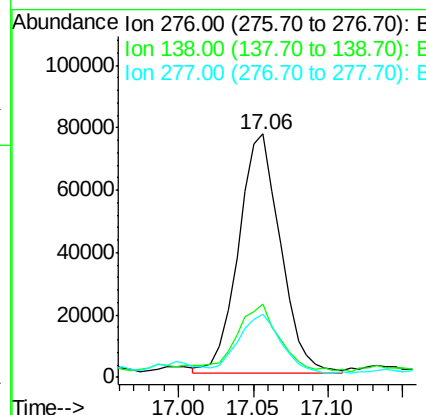
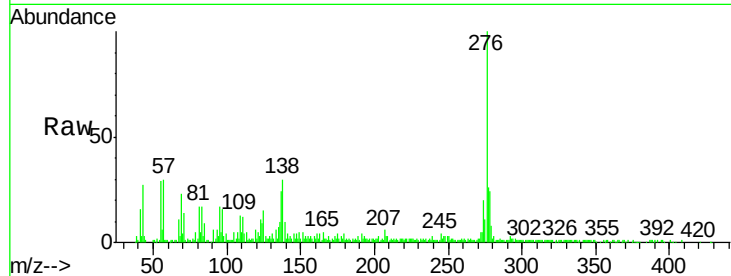
#85
Indeno(1,2,3-cd)pyrene
Concen: 9.391 ng
RT: 17.06 min Scan# 2545
Delta R.T. 0.04 min
Lab File: BF102882.D
Acq: 9 Feb 2018 12:17

Instrument :
BNA_F
ClientSampled :
TR-05-020718

Tot Ion	Ratio	Lower	Upper
276	100		
138	29.1	25.0	37.6
277	24.8	20.1	30.1

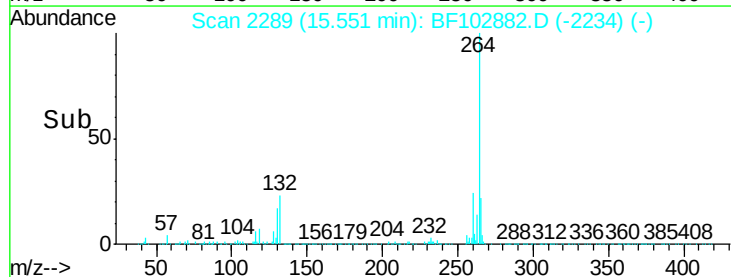
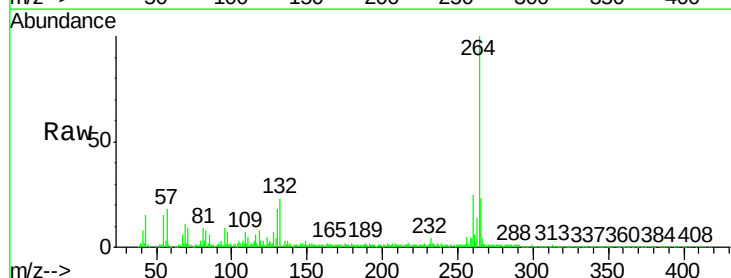
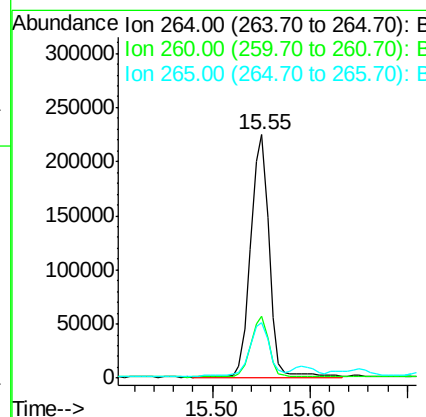
Manual Integrations
APPROVED

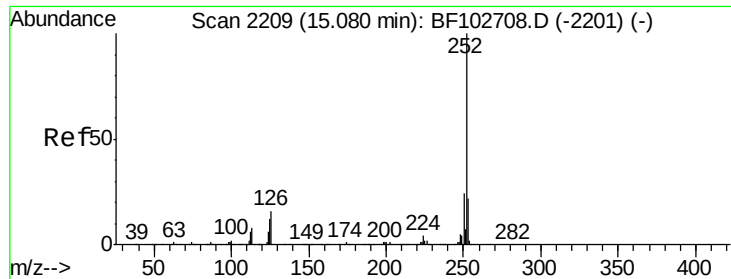
Sohil
2/13/2018 4:35:20 AM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.55 min Scan# 2289
Delta R.T. 0.02 min
Lab File: BF102882.D
Acq: 9 Feb 2018 12:17

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.2	19.2	28.8
265	23.0	17.5	26.3





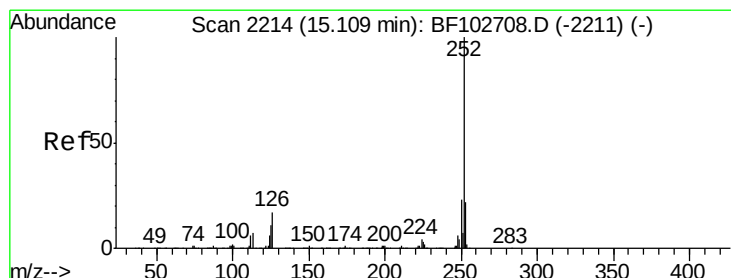
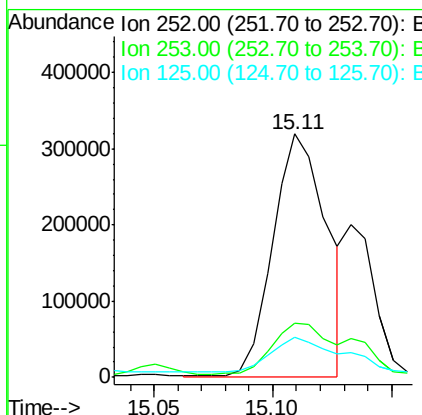
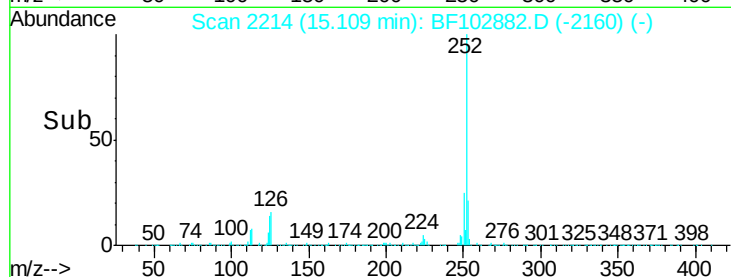
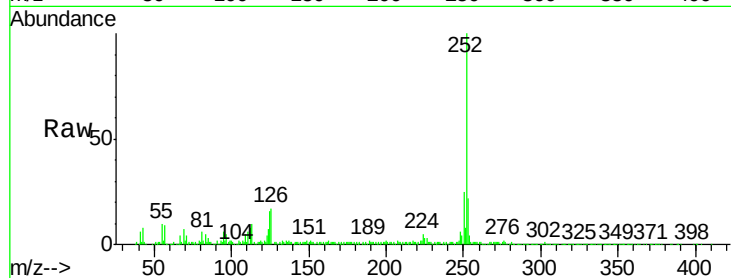
#87
Benzo(b)fluoranthene
Concen: 26.560 ng m
RT: 15.11 min Scan# 2214
Delta R.T. 0.02 min
Lab File: BF102882.D
Acq: 9 Feb 2018 12:17

Instrument :
BNA_F
ClientSampleId :
TR-05-020718

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.0	25.6
125	16.3	9.0	13.6

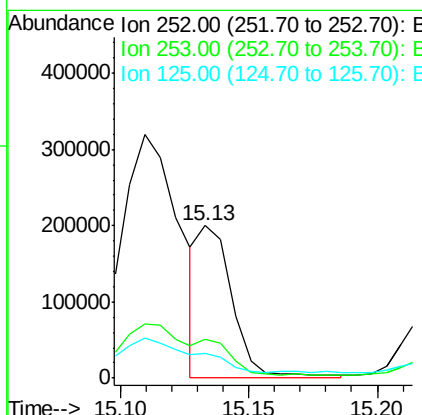
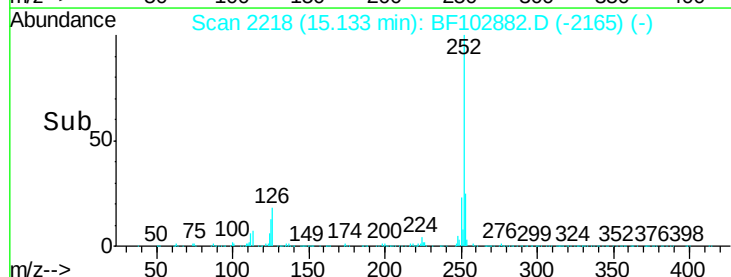
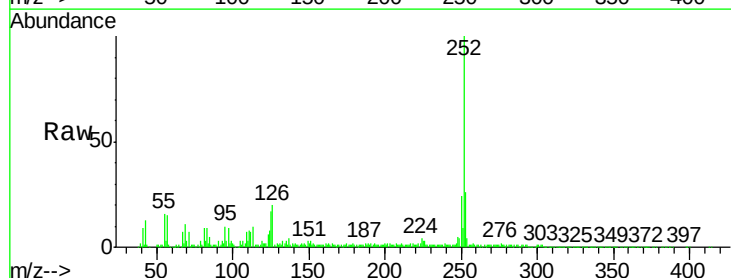
Manual Integrations
APPROVED

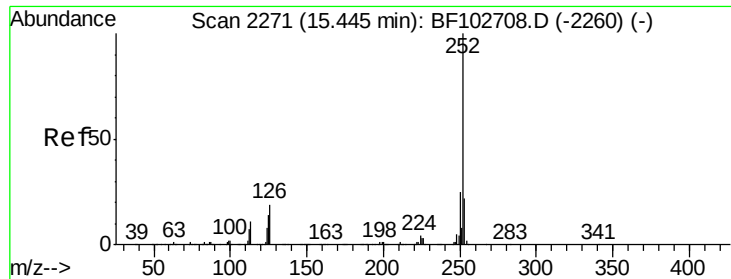
Sohil
2/13/2018 4:35:20 AM



#88
Benzo(k)fluoranthene
Concen: 9.957 ng m
RT: 15.13 min Scan# 2218
Delta R.T. 0.01 min
Lab File: BF102882.D
Acq: 9 Feb 2018 12:17

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.9	17.9	26.9
125	16.6	10.2	15.2





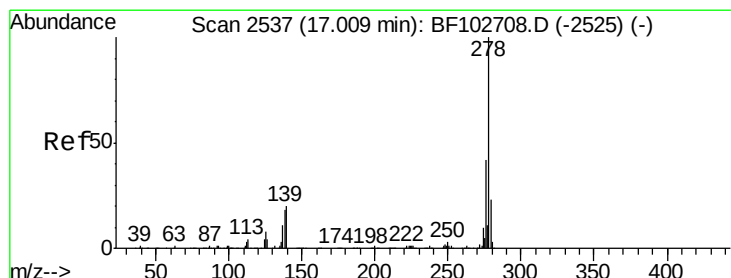
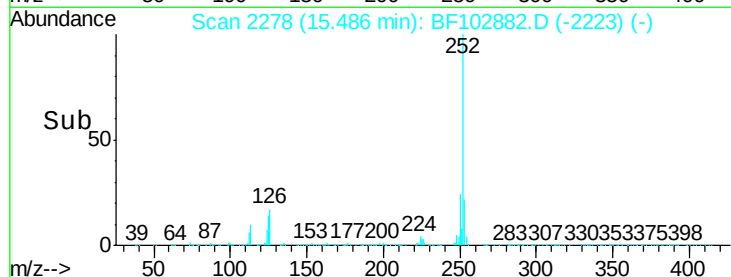
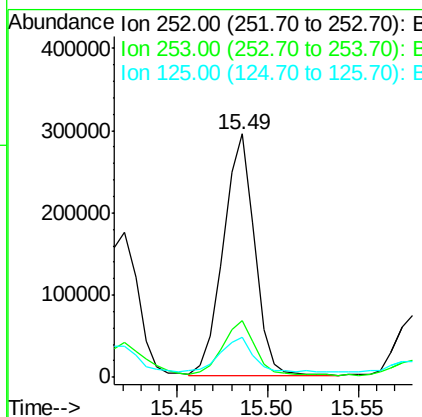
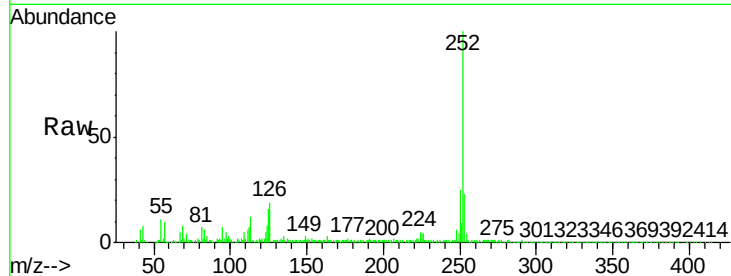
#89
Benzo(a)pyrene
Concen: 20.543 ng
RT: 15.49 min Scan# 2278
Delta R.T. 0.02 min
Lab File: BF102882.D
Acq: 9 Feb 2018 12:17

Instrument :
BNA_F
ClientSampleId :
TR-05-020718

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.1	25.7
125	16.3	9.8	14.6

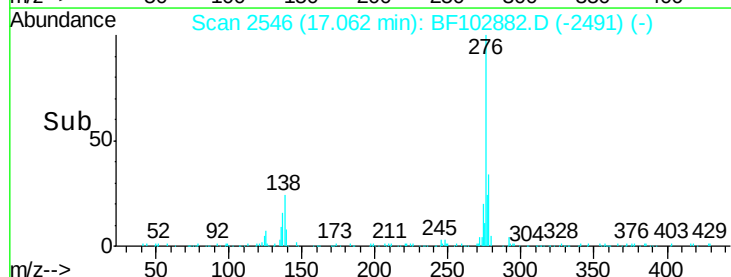
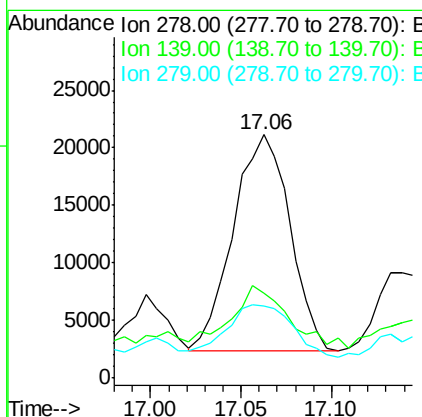
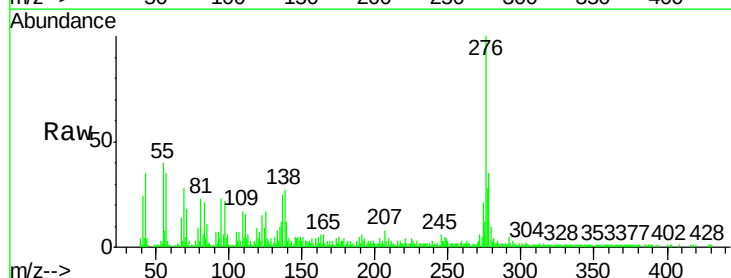
Manual Integrations
APPROVED

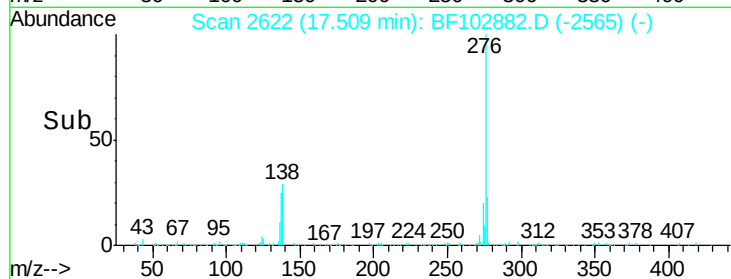
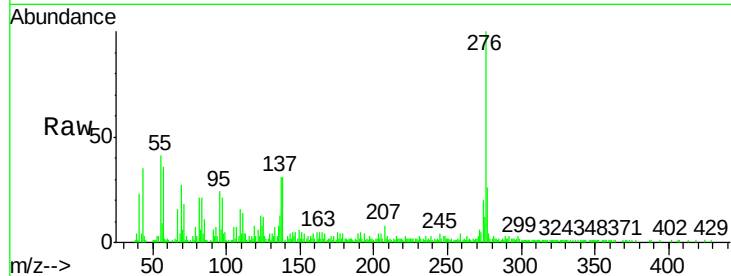
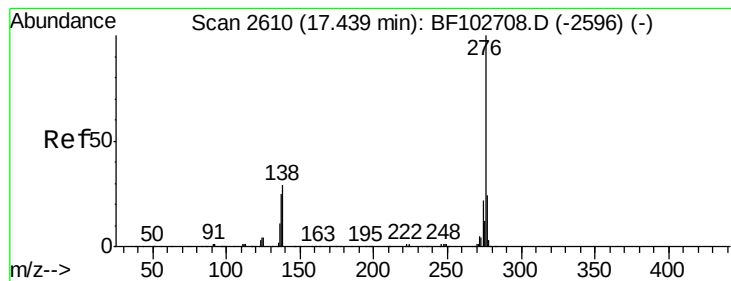
Sohil
2/13/2018 4:35:20 AM



#90
Dibenzo(a,h)anthracene
Concen: 2.915 ng
RT: 17.06 min Scan# 2546
Delta R.T. 0.02 min
Lab File: BF102882.D
Acq: 9 Feb 2018 12:17

Tgt Ion	Ratio	Lower	Upper
278	100		
139	35.0	15.9	23.9
279	29.5	19.0	28.4





#91

Benzo(a,h,i)perylene

Concen: 9.572 ng

RT: 17.51 min Scan# 2622

Delta R.T. 0.04 min

Lab File: BF102882.D

Acq: 9 Feb 2018 12:17

Tot Ion	Ratio	Resp	Lower	Upper
276	100			
277	25.5	17.9	26.9	
138	31.3	21.8	32.8	

Instrument :

BNA_F

ClientSampleId :

TR-05-020718

Manual Integrations
APPROVED

Sohil
2/13/2018 4:35:20 AM

